

September 22, 2021

Andy Warnick
Rosemont Copper Company
5255 East Williams Circle, Suite W1065
Tucson, AZ 85711

TEL (520) 400-0085
FAX (520) 495-3540

Work Order No.: 2110106
Order Name: Baseline Stormwater
Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 6 sample(s) on 09/07/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

Order: Baseline Stormwater Monitoring

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21I0106-01	SCRPR-091021	Storm Water	09/06/2021 0625
21I0106-02	SCRGT-09621	Storm Water	09/06/2021 0625
21I0106-03	SCR22-09621	Storm Water	09/06/2021 0727
21I0106-04	SCRSJ-09621	Storm Water	09/06/2021 0810
21I0106-05	SCRON-09621	Storm Water	09/06/2021 0905
21I0106-06	SCRINA-09621	Storm Water	09/06/2021 0940

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

Case Narrative

N-1 = The Duplicate for the TDS batch had an RPD of 13% which is greater than the 5% method limit. The sample that was used for the duplicate was very high in concentration and therefore led to the duplicate being outside of limits. There are two passing Sample Duplicates in the batch. The data should not be impacted.

- B1 Target analyte detected in the method blank at or above the method reporting limit.
 - B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
 - B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
 - C4 Confirmatory analysis was past holding time
 - D1 Sample required dilution due to matrix.
 - E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
 - E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
 - H1 Sample analysis was performed past holding time.
 - H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
 - M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
 - M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
 - M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
 - M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
 - N1 See case narrative.
 - N4 The Minimum Reporting Limit (MRL) verification check did not meet laboratory acceptance limits.
 - Q9 Insufficient sample received to meet method QC requirements.
 - R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.
- All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.
- ND Not Detected at or above the PQL
 - PQL Practical Quantitation Limit
 - DF Dilution Factor

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-01

Client Sample ID: SCRPR-091021
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	56		22		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	81				mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.74				mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.74		0.10		mg/L	1	09/07/2021 1643	09/14/2021 0459	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.028	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Calcium	22		4.0		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Magnesium	ND		3.0		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Potassium	ND		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Silica	5.1		0.20		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1648	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040	M1	mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Antimony	0.00071		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Arsenic	0.0025		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Barium	0.034		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Cobalt	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Copper	0.0073		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Manganese	0.029		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Molybdenum	0.0021		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-01

Client Sample ID: SCRPR-091021
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nickel	0.00073		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Selenium	0.00036	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Silver	ND	0.000021	0.00050	E8	mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1408	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1411	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/20/2021 0952	09/20/2021 1511	RAD
Turbidity-E180.1									
Turbidity	9.6		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.036	0.0032	0.10	E4	mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Calcium	25		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Iron	4.3		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Magnesium	4.3		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Potassium	5.4		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Silica	33		0.20		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
Sodium	5.2		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1618	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	7.0		0.40		mg/L	10	09/14/2021 1030	09/16/2021 1438	CR
Antimony	0.00059		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Arsenic	0.0043		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Barium	0.091		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Beryllium	0.00032		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Cadmium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Chromium	0.0038		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Cobalt	0.00230		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Copper	0.023		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Lead	0.0093		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Manganese	0.19		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Molybdenum	0.0018		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Nickel	0.0052		0.00050	B5	mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Selenium	0.0036		0.0025		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Silver	0.000059	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Thallium	0.000071	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1232	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-01

Client Sample ID: SCRPR-091021
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Uranium	0.00064		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
Zinc	0.048		0.040		mg/L	1	09/14/2021 1030	09/16/2021 1232	CR
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/13/2021 0905	09/13/2021 1456	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	4.1		1.0		mg/L	1	09/07/2021 1643	09/14/2021 0459	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/14/2021 0459	JG
Nitrogen, Nitrate (As N)	0.74		0.50	C4	mg/L	1	09/07/2021 1643	09/14/2021 0459	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/07/2021 1643	09/14/2021 0459	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1705	JG
Sulfate	9.4		5.0	M2	mg/L	1	09/07/2021 1643	09/07/2021 1705	JG
Calculation-Ion Balance									
Anion	3.50				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	1.10				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	52.2				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	150		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	150		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	170		0.10		µmhos/cm	1	09/10/2021 1635	09/10/2021 1700	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-01

Client Sample ID: SCRPR-091021
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Dissolved Solids (Residue, Filterable)									
Total Dissolved Solids (Residue, Filterable)	140		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	220		10		mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	5.2		2.0		mg/L	1	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	7.9			H5	-	1	09/08/2021 1525	09/08/2021 1559	CWB
Temperature (°C)	21			H5	-	1	09/08/2021 1525	09/08/2021 1559	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-02

Client Sample ID: SCRGT-09621
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	50		22		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	54				mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.71				mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.71		0.10		mg/L	1	09/07/2021 1643	09/16/2021 1142	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.026	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Calcium	20		4.0		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Magnesium	ND		3.0		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Potassium	ND		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Silica	4.9		0.20		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1652	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	0.053		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Antimony	0.00071		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Arsenic	0.0025		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Barium	0.025		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Cobalt	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Copper	0.0056		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Manganese	0.0040		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Molybdenum	0.0020		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Nickel	0.00055		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Selenium	0.00033	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
Silver	0.00026	0.000021	0.00050	E4	mg/L	1	09/16/2021 1555	09/17/2021 1425	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-02

Client Sample ID: SCRGT-09621
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1421	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1425	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/20/2021 0952	09/20/2021 1503	RAD
Turbidity-E180.1									
Turbidity	5.6		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.028	0.0032	0.10	E4	mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Calcium	22		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Iron	1.3		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Potassium	ND		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Silica	15		0.20		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1621	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	2.5		0.40		mg/L	10	09/14/2021 1030	09/16/2021 1442	CR
Antimony	0.00064		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Arsenic	0.0027		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Barium	0.053		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Beryllium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Cadmium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Chromium	0.0017		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Cobalt	0.000818		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Copper	0.011		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Lead	0.0036		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Manganese	0.074		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Molybdenum	0.0019		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Nickel	0.0033		0.00050	B5	mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Selenium	0.0012	0.00025	0.0025	E4	mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Silver	0.000023	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Thallium	0.000034	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Uranium	0.00040	0.000015	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1236	CR
Zinc	ND		0.040		mg/L	1	09/14/2021 1030	09/16/2021 1236	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-02

Client Sample ID: SCRGT-09621
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/13/2021 0905	09/13/2021 1459	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	3.8		1.0		mg/L	1	09/07/2021 1643	09/16/2021 1142	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/16/2021 1142	JG
Nitrogen, Nitrate (As N)	0.71		0.50	C4	mg/L	1	09/07/2021 1643	09/16/2021 1142	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/07/2021 1643	09/16/2021 1142	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1723	JG
Sulfate	9.1		5.0		mg/L	1	09/07/2021 1643	09/07/2021 1723	JG
Calculation-Ion Balance									
Anion	1.00				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	2.31				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	39.4				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0		mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	92		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	92		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	150		0.10		µmhos/cm	1	09/10/2021 1635	09/10/2021 1700	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	120		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-02

Client Sample ID: SCRGT-09621
Collection Date/Time: 09/06/2021 0625
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	27		10		mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	4.7		2.0		mg/L	1	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	7.7			H5	-	1	09/08/2021 1525	09/08/2021 1604	CWB
Temperature (°C)	21			H5	-	1	09/08/2021 1525	09/08/2021 1604	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-03

Client Sample ID: SCR22-09621
Collection Date/Time: 09/06/2021 0727
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	300		22		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	300				mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	4.2				mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	4.2		0.10		mg/L	1	09/07/2021 1643	09/16/2021 1201	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.24		0.10		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Calcium	91		4.0		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Magnesium	17		3.0		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Potassium	8.9		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Silica	35		0.20		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
Sodium	120		5.0		mg/L	1	09/16/2021 1555	09/17/2021 1655	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Antimony	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Arsenic	0.0051		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Barium	0.083		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Cobalt	0.0011		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Copper	0.0022		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Manganese	0.00082		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Molybdenum	0.0070		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Nickel	0.0015		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Selenium	0.00064	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
Silver	0.00010	0.000021	0.00050	E4	mg/L	1	09/16/2021 1555	09/17/2021 1429	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-03

Client Sample ID: SCR22-09621
Collection Date/Time: 09/06/2021 0727
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1425	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1429	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.000044	0.000041	0.0010	E4	mg/L	1	09/20/2021 0952	09/20/2021 1513	RAD
Turbidity-E180.1									
Turbidity	11		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.24		0.10		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Calcium	90		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Iron	0.42		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Magnesium	18		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Potassium	9.4		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Silica	37		0.20		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
Sodium	130		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1523	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	0.49		0.040	M2	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Antimony	ND		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Arsenic	0.0051		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Barium	0.11		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Beryllium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Cadmium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Chromium	0.00086		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Cobalt	0.00145		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Copper	0.0086		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Lead	0.0019		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Manganese	0.089		0.00025	M2	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Molybdenum	0.0077		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Nickel	0.0068		0.00050	B5	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Selenium	0.0011	0.00025	0.0025	E4	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Silver	0.000065	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Thallium	0.00025	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Uranium	0.0084		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1133	CR
Zinc	0.057		0.040	M2	mg/L	1	09/14/2021 1030	09/16/2021 1133	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-03

Client Sample ID: SCR22-09621
Collection Date/Time: 09/06/2021 0727
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/13/2021 0905	09/13/2021 1501	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	120		10		mg/L	10	09/07/2021 1643	09/16/2021 1220	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/16/2021 1201	JG
Nitrogen, Nitrate (As N)	4.2		0.50	C4	mg/L	1	09/07/2021 1643	09/16/2021 1201	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/07/2021 1643	09/16/2021 1201	JG
Phosphorus, Dissolved	0.59		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1742	JG
Orthophosphate (As P)									
Sulfate	170		50		mg/L	10	09/07/2021 1643	09/16/2021 1220	JG
Calculation-Ion Balance									
Anion	12.7				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	11.4				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	5.62				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	230		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	230		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	1200		0.10		µmhos/cm	1	09/10/2021 1635	09/10/2021 1700	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	760		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-03

Client Sample ID: SCR22-09621
Collection Date/Time: 09/06/2021 0727
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	10		10	Q9	mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	35		10		mg/L	5	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	8.1			H5	-	1	09/08/2021 1525	09/08/2021 1605	CWB
Temperature (°C)	22			H5	-	1	09/08/2021 1525	09/08/2021 1605	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-04

Client Sample ID: SCRSJ-09621
Collection Date/Time: 09/06/2021 0810
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	390		22		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	430				mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	5.7				mg/L	10	09/15/2021 1645	09/17/2021 2142	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	09/07/2021 1643	09/17/2021 2142	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.11		0.10		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Calcium	120		4.0		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Magnesium	19		3.0		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Potassium	9.3		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Silica	33		0.20		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
Sodium	66		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1304	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Antimony	0.00056		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Arsenic	0.0071		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Barium	0.16		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Cobalt	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Copper	0.0023		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Manganese	0.031		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Molybdenum	0.015		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Nickel	0.00099		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Selenium	0.0010	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
Silver	ND	0.000021	0.00050	E8	mg/L	1	09/16/2021 1555	09/17/2021 1432	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-04

Client Sample ID: SCRSJ-09621
Collection Date/Time: 09/06/2021 0810
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1428	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1432	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/20/2021 0952	09/20/2021 1516	RAD
Turbidity-E180.1									
Turbidity	11		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.12		0.10		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Calcium	130		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Iron	7.5		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Magnesium	22		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Potassium	11		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Silica	67		0.20		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
Sodium	67		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1624	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	9.5		4.0		mg/L	100	09/14/2021 1030	09/16/2021 1509	CR
Antimony	0.00058		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Arsenic	0.011		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Barium	0.27		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Beryllium	0.00061		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Cadmium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Chromium	0.0052		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Cobalt	0.00423		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Copper	0.028		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Lead	0.013		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Manganese	0.85		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Molybdenum	0.013		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Nickel	0.0088		0.00050	B7	mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Selenium	0.0078		0.0025		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Silver	0.000069	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Thallium	0.00011	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Uranium	0.013		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR
Zinc	0.050		0.040		mg/L	1	09/14/2021 1030	09/16/2021 1239	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-04

Client Sample ID: SCRSJ-09621
Collection Date/Time: 09/06/2021 0810
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/13/2021 0905	09/13/2021 1504	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	68		10		mg/L	10	09/07/2021 1643	09/17/2021 2201	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/17/2021 2142	JG
Nitrogen, Nitrate (As N)	ND		0.50	C4	mg/L	1	09/07/2021 1643	09/17/2021 2142	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/07/2021 1643	09/17/2021 2142	JG
Phosphorus, Dissolved	ND		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1801	JG
Orthophosphate (As P)									
Sulfate	240		50		mg/L	10	09/07/2021 1643	09/17/2021 2201	JG
Calculation-Ion Balance									
Anion	13.0				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	10.7				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	9.82				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	5.7		5.0		mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	260		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	260		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	1100		0.10		µmhos/cm	1	09/10/2021 1635	09/10/2021 1700	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	750		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-04

Client Sample ID: SCRSJ-09621
Collection Date/Time: 09/06/2021 0810
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	270		10		mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	33		10		mg/L	5	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	8.1			H5	-	1	09/08/2021 1525	09/08/2021 1607	CWB
Temperature (°C)	22			H5	-	1	09/08/2021 1525	09/08/2021 1607	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-05

Client Sample ID: SCRON-09621
Collection Date/Time: 09/06/2021 0905
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	160		22		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	180				mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	7.2				mg/L	10	09/15/2021 1645	09/17/2021 2338	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	1.3		0.10		mg/L	1	09/07/2021 1643	09/17/2021 2338	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.16		0.10		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Calcium	49		4.0		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Magnesium	10		3.0		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Potassium	9.8		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Silica	19		0.20		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
Sodium	63		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1307	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Antimony	0.00061		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Arsenic	0.0032		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Barium	0.078		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Cobalt	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Copper	0.0067		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Manganese	0.025		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Molybdenum	0.0039		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Nickel	0.0013		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Selenium	0.00074	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
Silver	ND	0.000021	0.00050	E8	mg/L	1	09/16/2021 1555	09/17/2021 1436	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-05

Client Sample ID: SCRON-09621
Collection Date/Time: 09/06/2021 0905
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1432	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1436	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/20/2021 0952	09/20/2021 1518	RAD
Turbidity-E180.1									
Turbidity	5.6		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.15		0.10		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Calcium	54		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Iron	1.6		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Magnesium	11		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Potassium	10		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Silica	28		0.20		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
Sodium	63		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1627	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	2.5		0.40		mg/L	10	09/14/2021 1030	09/16/2021 1449	CR
Antimony	0.00059		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Arsenic	0.0039		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Barium	0.10		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Beryllium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Cadmium	ND		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Chromium	0.0025		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Cobalt	0.00102		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Copper	0.012		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Lead	0.0039		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Manganese	0.086		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Molybdenum	0.0041		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Nickel	0.0050		0.00050	B5	mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Selenium	0.0016	0.00025	0.0025	E4	mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Silver	0.000030	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Thallium	0.000038	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Uranium	0.0011		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR
Zinc	0.047		0.040		mg/L	1	09/14/2021 1030	09/16/2021 1243	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-05

Client Sample ID: SCRON-09621
Collection Date/Time: 09/06/2021 0905
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/13/2021 0905	09/13/2021 1506	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	65		10		mg/L	10	09/07/2021 1643	09/17/2021 2358	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/17/2021 2338	JG
Nitrogen, Nitrate (As N)	1.3		0.50	C4	mg/L	1	09/07/2021 1643	09/17/2021 2338	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/07/2021 1643	09/17/2021 2338	JG
Phosphorus, Dissolved	0.87		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1820	JG
Orthophosphate (As P)									
Sulfate	110		50		mg/L	10	09/07/2021 1643	09/17/2021 2358	JG
Calculation-Ion Balance									
Anion	8.06				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	6.26				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	12.6				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	5.9		5.0		mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	170		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	170		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	690		0.10		µmhos/cm	1	09/13/2021 1600	09/13/2021 1630	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	430		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-05

Client Sample ID: SCRON-09621
Collection Date/Time: 09/06/2021 0905
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	82		10		mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	17		10		mg/L	5	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	7.8			H5	-	1	09/08/2021 1525	09/08/2021 1608	CWB
Temperature (°C)	21			H5	-	1	09/08/2021 1525	09/08/2021 1608	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-06

Client Sample ID: SCRINA-09621
Collection Date/Time: 09/06/2021 0940
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	220		22		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	620				mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	15				mg/L	10	09/15/2021 1645	09/18/2021 0017	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	2.3		0.10		mg/L	1	09/07/2021 1643	09/18/2021 0017	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.24		0.10		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Calcium	63		4.0		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Magnesium	15		3.0		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Potassium	16		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Silica	27		0.20		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
Sodium	96		5.0		mg/L	1	09/16/2021 1555	09/20/2021 1310	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Antimony	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Arsenic	0.0047		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Barium	0.16		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Cadmium	0.00031		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Cobalt	0.00051		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Copper	0.010		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Lead	0.00055		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Manganese	0.081		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Molybdenum	0.0043		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Nickel	0.0017		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Selenium	0.00085	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
Silver	ND	0.000021	0.00050	E8	mg/L	1	09/16/2021 1555	09/17/2021 1439	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-06

Client Sample ID: SCRINA-09621
Collection Date/Time: 09/06/2021 0940
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1435	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1439	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/20/2021 0952	09/20/2021 1521	RAD
Turbidity-E180.1									
Turbidity	24		0.10	H1	NTU	1	09/08/2021 1421	09/08/2021 1510	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.29		0.10		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Calcium	190		4.0		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Iron	39		0.30		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Magnesium	38		3.0		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Potassium	29		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
Silica	180		2.0		mg/L	10	09/13/2021 1200	09/15/2021 0956	MH
Sodium	100		5.0		mg/L	1	09/13/2021 1200	09/14/2021 1630	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	44		4.0		mg/L	100	09/14/2021 1030	09/16/2021 1424	CR
Antimony	ND		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Arsenic	0.020		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Barium	0.85		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Beryllium	0.0030		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Cadmium	0.00092		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Chromium	0.027		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Cobalt	0.0225		0.000250		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Copper	0.090		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Lead	0.077		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Manganese	2.2		0.025		mg/L	100	09/14/2021 1030	09/16/2021 1424	CR
Molybdenum	0.0017		0.00025		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Nickel	0.034		0.00050	B7	mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Selenium	0.028		0.0025		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Silver	0.00027	0.000021	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Thallium	0.00045	0.000023	0.00050	E4	mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Uranium	0.0040		0.00050		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR
Zinc	0.19		0.040		mg/L	1	09/14/2021 1030	09/16/2021 1246	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-06

Client Sample ID: SCRINA-09621
Collection Date/Time: 09/06/2021 0940
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00071	0.0020	E8	mg/L	1	09/13/2021 0905	09/13/2021 1509	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	110		10		mg/L	10	09/07/2021 1643	09/18/2021 0036	JG
Fluoride	ND		0.50		mg/L	1	09/07/2021 1643	09/18/2021 0017	JG
Nitrogen, Nitrate (As N)	2.1		0.50	C4	mg/L	1	09/07/2021 1643	09/18/2021 0017	JG
Nitrogen, Nitrite (As N)	0.28		0.10	C4	mg/L	1	09/07/2021 1643	09/18/2021 0017	JG
Phosphorus, Dissolved	2.4		0.50		mg/L	1	09/07/2021 1643	09/07/2021 1839	JG
Orthophosphate (As P)									
Sulfate	130		50		mg/L	10	09/07/2021 1643	09/18/2021 0036	JG
Calculation-Ion Balance									
Anion	15.8				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation	8.97				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Cation/Anion, % Difference	27.6				meq/L	1	09/22/2021 1102	09/22/2021 1103	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	13		5.0		mg/L	10	09/15/2021 1645	09/16/2021 1320	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	460		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Alkalinity, Total (As CaCO3)	460		2.0		mg/L	1	09/13/2021 1519	09/13/2021 1700	AGC
Specific Conductance-SM2510 B									
Conductivity	990		0.10		µmhos/cm	1	09/13/2021 1600	09/13/2021 1630	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	600		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Lab Sample ID: 21I0106-06

Client Sample ID: SCRINA-09621
Collection Date/Time: 09/06/2021 0940
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	3000		10		mg/L	1	09/07/2021 0854	09/09/2021 1420	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	2.1		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	25		10		mg/L	5	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	7.5			H5	-	1	09/08/2021 1525	09/08/2021 1609	CWB
Temperature (°C)	21			H5	-	1	09/08/2021 1525	09/08/2021 1609	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
Batch 2109141 - E245.1										
Blank (2109141-BLK1)				Prepared & Analyzed: 09/13/2021						
Mercury	ND	0.0010	mg/L							
LCS (2109141-BS1)				Prepared & Analyzed: 09/13/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		101	85-115			
LCS Dup (2109141-BSD1)				Prepared & Analyzed: 09/13/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		101	85-115	0.1	20	
Matrix Spike (2109141-MS1)				Source: 2110068-01			Prepared & Analyzed: 09/13/2021			
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130			
Matrix Spike (2109141-MS2)				Source: 2110069-03			Prepared & Analyzed: 09/13/2021			
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130			
Matrix Spike Dup (2109141-MSD1)				Source: 2110068-01			Prepared & Analyzed: 09/13/2021			
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130	0.6	20	
Matrix Spike Dup (2109141-MSD2)				Source: 2110069-03			Prepared & Analyzed: 09/13/2021			
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130	0.6	20	
Batch 2109162 - E200.7 (4.4)										
Blank (2109162-BLK1)				Prepared: 09/13/2021 Analyzed: 09/14/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	0.0039	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2109162-BS1)				Prepared: 09/13/2021 Analyzed: 09/14/2021						
Boron	1.0	0.10	mg/L	1.000		103	85-115			
Calcium	10	4.0	mg/L	10.00		103	85-115			
Iron	1.0	0.30	mg/L	1.000		105	85-115			
Magnesium	10	3.0	mg/L	10.00		103	85-115			
Potassium	11	5.0	mg/L	10.00		106	85-115			
Sodium	11	5.0	mg/L	10.00		109	85-115			
LCS (2109162-BS2)				Prepared: 09/13/2021 Analyzed: 09/14/2021						
Silica	9.7	0.20	mg/L	10.00		97	85-115			
LCS Dup (2109162-BSD1)				Prepared: 09/13/2021 Analyzed: 09/14/2021						
Boron	1.0	0.10	mg/L	1.000		102	85-115	0.06	20	
Calcium	10	4.0	mg/L	10.00		102	85-115	0.5	20	
Iron	1.0	0.30	mg/L	1.000		103	85-115	1	20	
Magnesium	10	3.0	mg/L	10.00		102	85-115	0.4	20	
Potassium	11	5.0	mg/L	10.00		107	85-115	0.6	20	
Sodium	11	5.0	mg/L	10.00		109	85-115	0.6	20	
LCS Dup (2109162-BSD2)				Prepared: 09/13/2021 Analyzed: 09/14/2021						
Silica	9.7	0.20	mg/L	10.00		97	85-115	0.01	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109162 - E200.7 (4.4)										
Matrix Spike (2109162-MS1)		Source: 21I0004-02			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Boron	1.3	0.10	mg/L	1.000	0.31	103	70-130			
Calcium	210	4.0	mg/L	10.00	210	9	70-130			M3
Iron	1.7	0.30	mg/L	1.000	0.63	103	70-130			
Magnesium	47	3.0	mg/L	10.00	39	83	70-130			
Potassium	34	5.0	mg/L	10.00	24	106	70-130			
Sodium	170	5.0	mg/L	10.00	160	88	70-130			
Matrix Spike (2109162-MS2)		Source: 21I0084-03			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Boron	1.0	0.10	mg/L	1.000	0.035	100	70-130			
Calcium	210	4.0	mg/L	10.00	200	60	70-130			M3
Iron	17	0.30	mg/L	1.000	16	84	70-130			
Magnesium	53	3.0	mg/L	10.00	44	91	70-130			
Potassium	13	5.0	mg/L	10.00	2.0	107	70-130			
Sodium	12	5.0	mg/L	10.00	0.62	109	70-130			
Matrix Spike (2109162-MS3)		Source: 21I0084-02			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Silica	45	0.20	mg/L	10.00	35	102	70-130			
Matrix Spike (2109162-MS4)		Source: 21I0106-03			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Silica	46	0.20	mg/L	10.00	37	94	70-130			
Batch 2109182 - E200.8 (5.4)										
Blank (2109182-BLK1)				Prepared: 09/14/2021 Analyzed: 09/16/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	0.00079	0.00050	mg/L							B1
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109182 - E200.8 (5.4)										
LCS (2109182-BS1)					Prepared: 09/14/2021 Analyzed: 09/16/2021					
Aluminum	0.11	0.040	mg/L	0.1000		109	85-115			
Antimony	0.050	0.00050	mg/L	0.05000		99	85-115			
Arsenic	0.049	0.00050	mg/L	0.05000		98	85-115			
Barium	0.050	0.00050	mg/L	0.05000		101	85-115			
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115			
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115			
Chromium	0.050	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.0490	0.000250	mg/L	0.05000		98	85-115			
Copper	0.051	0.00050	mg/L	0.05000		102	85-115			
Lead	0.049	0.00050	mg/L	0.05000		99	85-115			
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115			
Nickel	0.050	0.00050	mg/L	0.05000		100	85-115			
Selenium	0.052	0.0025	mg/L	0.05000		103	85-115			
Silver	0.045	0.00050	mg/L	0.05000		90	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Uranium	0.049	0.00050	mg/L	0.05000		98	85-115			
Zinc	0.10	0.040	mg/L	0.1000		101	85-115			

LCS Dup (2109182-BS1)					Prepared: 09/14/2021 Analyzed: 09/16/2021					
Aluminum	0.11	0.040	mg/L	0.1000		106	85-115	3	20	
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115	0.4	20	
Arsenic	0.049	0.00050	mg/L	0.05000		97	85-115	0.8	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	2	20	
Beryllium	0.049	0.00025	mg/L	0.05000		98	85-115	1	20	
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115	0.3	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Cobalt	0.0487	0.000250	mg/L	0.05000		97	85-115	0.5	20	
Copper	0.049	0.00050	mg/L	0.05000		98	85-115	4	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Manganese	0.048	0.00025	mg/L	0.05000		97	85-115	3	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115	1	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	2	20	
Selenium	0.049	0.0025	mg/L	0.05000		99	85-115	4	20	
Silver	0.045	0.00050	mg/L	0.05000		90	85-115	0.2	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.04	20	
Uranium	0.049	0.00050	mg/L	0.05000		97	85-115	0.6	20	
Zinc	0.10	0.040	mg/L	0.1000		100	85-115	0.5	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109182 - E200.8 (5.4)										
Matrix Spike (2109182-MS1)		Source: 2110084-02			Prepared: 09/14/2021 Analyzed: 09/16/2021					
Aluminum	0.73	0.040	mg/L	0.1000	0.63	103	70-130			
Antimony	0.049	0.00050	mg/L	0.05000	0.00063	96	70-130			
Arsenic	0.053	0.00050	mg/L	0.05000	0.0046	96	70-130			
Barium	0.19	0.00050	mg/L	0.05000	0.13	116	70-130			
Beryllium	0.048	0.00025	mg/L	0.05000	0.000039	96	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	0.00014	93	70-130			
Chromium	0.048	0.00050	mg/L	0.05000	0.0026	91	70-130			
Cobalt	0.0465	0.000250	mg/L	0.05000	0.000660	92	70-130			
Copper	0.056	0.00050	mg/L	0.05000	0.0063	100	70-130			
Lead	0.054	0.00050	mg/L	0.05000	0.0018	105	70-130			
Manganese	0.11	0.00025	mg/L	0.05000	0.062	86	70-130			
Molybdenum	0.072	0.00025	mg/L	0.05000	0.019	105	70-130			
Nickel	0.051	0.00050	mg/L	0.05000	0.0047	92	70-130			
Selenium	0.048	0.0025	mg/L	0.05000	0.00086	95	70-130			
Silver	0.040	0.00050	mg/L	0.05000	0.000030	79	70-130			
Thallium	0.051	0.00050	mg/L	0.05000	0.00050	101	70-130			
Uranium	0.064	0.00050	mg/L	0.05000	0.0023	123	70-130			
Zinc	0.18	0.040	mg/L	0.1000	0.056	122	70-130			
Matrix Spike (2109182-MS2)										
Source: 2110106-03		Prepared: 09/14/2021 Analyzed: 09/16/2021								
Aluminum	0.55	0.040	mg/L	0.1000	0.49	59	70-130			M2
Antimony	0.045	0.00050	mg/L	0.05000	0.00034	89	70-130			
Arsenic	0.052	0.00050	mg/L	0.05000	0.0051	94	70-130			
Barium	0.15	0.00050	mg/L	0.05000	0.11	81	70-130			
Beryllium	0.046	0.00025	mg/L	0.05000	0.000043	93	70-130			
Cadmium	0.044	0.00025	mg/L	0.05000	0.00015	87	70-130			
Chromium	0.047	0.00050	mg/L	0.05000	0.00086	92	70-130			
Cobalt	0.0458	0.000250	mg/L	0.05000	0.00145	89	70-130			
Copper	0.045	0.00050	mg/L	0.05000	0.0086	74	70-130			
Lead	0.051	0.00050	mg/L	0.05000	0.0019	98	70-130			
Manganese	0.10	0.00025	mg/L	0.05000	0.089	29	70-130			M2
Molybdenum	0.056	0.00025	mg/L	0.05000	0.0077	97	70-130			
Nickel	0.048	0.00050	mg/L	0.05000	0.0068	82	70-130			
Selenium	0.047	0.0025	mg/L	0.05000	0.0011	91	70-130			
Silver	0.039	0.00050	mg/L	0.05000	0.000065	77	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00025	96	70-130			
Uranium	0.066	0.00050	mg/L	0.05000	0.0084	114	70-130			
Zinc	0.11	0.040	mg/L	0.1000	0.057	57	70-130			M2
Batch 2109205 - E 200.7 (4.4)										
Blank (2109205-BLK1)		Prepared: 09/16/2021 Analyzed: 09/17/2021								
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109205 - E 200.7 (4.4)										
LCS (2109205-BS1)				Prepared: 09/16/2021 Analyzed: 09/17/2021						
Boron	0.98	0.10	mg/L	1.000		98	85-115			
Calcium	10	4.0	mg/L	10.00		101	85-115			
Iron	1.0	0.30	mg/L	1.000		100	85-115			
Magnesium	9.8	3.0	mg/L	10.00		98	85-115			
Potassium	9.8	5.0	mg/L	10.00		98	85-115			
Sodium	9.9	5.0	mg/L	10.00		99	85-115			
LCS (2109205-BS2)				Prepared: 09/16/2021 Analyzed: 09/17/2021						
Silica	2.1	0.20	mg/L	2.143		98	85-115			
LCS Dup (2109205-BSD1)				Prepared: 09/16/2021 Analyzed: 09/17/2021						
Boron	0.98	0.10	mg/L	1.000		98	85-115	0.0008		20
Calcium	10	4.0	mg/L	10.00		101	85-115	0.5		20
Iron	1.0	0.30	mg/L	1.000		100	85-115	0.05		20
Magnesium	9.9	3.0	mg/L	10.00		99	85-115	0.5		20
Potassium	9.6	5.0	mg/L	10.00		96	85-115	1		20
Sodium	9.7	5.0	mg/L	10.00		97	85-115	2		20
LCS Dup (2109205-BSD2)				Prepared: 09/16/2021 Analyzed: 09/17/2021						
Silica	2.1	0.20	mg/L	2.143		98	85-115	0.4		20
Matrix Spike (2109205-MS1)				Source: 21I0390-01		Prepared: 09/16/2021 Analyzed: 09/17/2021				
Boron	1.2	0.10	mg/L	1.000	0.11	108	70-130			
Calcium	120	4.0	mg/L	10.00	110	81	70-130			
Iron	1.1	0.30	mg/L	1.000	0.020	104	70-130			
Magnesium	16	3.0	mg/L	10.00	6.1	99	70-130			
Potassium	14	5.0	mg/L	10.00	4.2	101	70-130			
Sodium	53	5.0	mg/L	10.00	45	83	70-130			
Matrix Spike (2109205-MS2)				Source: 21I0451-03		Prepared: 09/16/2021 Analyzed: 09/17/2021				
Boron	1.3	0.10	mg/L	1.000	0.022	131	70-130			M6
Calcium	180	4.0	mg/L	10.00	170	70	70-130			
Iron	1.0	0.30	mg/L	1.000	ND	104	70-130			
Magnesium	9.7	3.0	mg/L	10.00	ND	97	70-130			
Potassium	86	5.0	mg/L	10.00	77	83	70-130			
Sodium	170	5.0	mg/L	10.00	160	56	70-130			M3
Matrix Spike (2109205-MS3)				Source: 21I0390-01		Prepared: 09/16/2021 Analyzed: 09/17/2021				
Silica	20	0.20	mg/L	2.143	18	85	70-130			
Matrix Spike (2109205-MS4)				Source: 21I0451-03		Prepared: 09/16/2021 Analyzed: 09/17/2021				
Silica	6.6	0.20	mg/L	2.143	4.4	99	70-130			
Batch 2109221 - E 200.8 (5.4)										

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109221 - E 200.8 (5.4)										
Blank (2109221-BLK1)										
Prepared & Analyzed: 09/17/2021										
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

LCS (2109221-BS1)										
Prepared & Analyzed: 09/17/2021										
Aluminum	0.099	0.040	mg/L	0.1000		99	85-115			
Antimony	0.047	0.00050	mg/L	0.05000		94	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115			
Barium	0.049	0.00050	mg/L	0.05000		97	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		95	85-115			
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115			
Chromium	0.048	0.00050	mg/L	0.05000		95	85-115			
Cobalt	0.047	0.00025	mg/L	0.05000		94	85-115			
Copper	0.047	0.00050	mg/L	0.05000		93	85-115			
Lead	0.047	0.00050	mg/L	0.05000		95	85-115			
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		97	85-115			
Nickel	0.048	0.00050	mg/L	0.05000		96	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		97	85-115			
Silver	0.044	0.00050	mg/L	0.05000		88	85-115			
Thallium	0.050	0.00050	mg/L	0.05000		100	85-115			
Zinc	0.098	0.040	mg/L	0.1000		98	85-115			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2109221 - E 200.8 (5.4)

LCS Dup (2109221-BS1)

Prepared & Analyzed: 09/17/2021

Aluminum	0.10	0.040	mg/L	0.1000		100	85-115	1	20	
Antimony	0.047	0.00050	mg/L	0.05000		95	85-115	0.4	20	
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115	0.2	20	
Barium	0.049	0.00050	mg/L	0.05000		97	85-115	0.3	20	
Beryllium	0.048	0.00025	mg/L	0.05000		97	85-115	1	20	
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115	0.2	20	
Chromium	0.047	0.00050	mg/L	0.05000		94	85-115	0.7	20	
Cobalt	0.047	0.00025	mg/L	0.05000		95	85-115	0.2	20	
Copper	0.047	0.00050	mg/L	0.05000		94	85-115	0.8	20	
Lead	0.048	0.00050	mg/L	0.05000		95	85-115	0.6	20	
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115	0.2	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115	1	20	
Nickel	0.048	0.00050	mg/L	0.05000		95	85-115	0.7	20	
Selenium	0.047	0.0025	mg/L	0.05000		95	85-115	3	20	
Silver	0.044	0.00050	mg/L	0.05000		89	85-115	1	20	
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115	5	20	
Zinc	0.099	0.040	mg/L	0.1000		99	85-115	1	20	

Matrix Spike (2109221-MS1)

Source: 21I0106-01

Prepared & Analyzed: 09/17/2021

Aluminum	0.14	0.040	mg/L	0.1000	ND	137	70-130			M1
Antimony	0.061	0.00050	mg/L	0.05000	0.00071	120	70-130			
Arsenic	0.063	0.00050	mg/L	0.05000	0.0025	121	70-130			
Barium	0.093	0.00050	mg/L	0.05000	0.034	116	70-130			
Beryllium	0.061	0.00025	mg/L	0.05000	ND	122	70-130			
Cadmium	0.060	0.00025	mg/L	0.05000	0.000057	120	70-130			
Chromium	0.057	0.00050	mg/L	0.05000	0.00043	113	70-130			
Cobalt	0.055	0.00025	mg/L	0.05000	0.00010	111	70-130			
Copper	0.061	0.00050	mg/L	0.05000	0.0073	108	70-130			
Lead	0.058	0.00050	mg/L	0.05000	0.000096	116	70-130			
Manganese	0.084	0.00025	mg/L	0.05000	0.029	110	70-130			
Molybdenum	0.061	0.00025	mg/L	0.05000	0.0021	119	70-130			
Nickel	0.055	0.00050	mg/L	0.05000	0.00073	109	70-130			
Selenium	0.065	0.0025	mg/L	0.05000	0.00036	130	70-130			
Silver	0.044	0.00050	mg/L	0.05000	ND	88	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	ND	96	70-130			
Zinc	0.13	0.040	mg/L	0.1000	0.0046	123	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109221 - E 200.8 (5.4)										
Matrix Spike (2109221-MS2)		Source: 21I0230-01			Prepared & Analyzed: 09/17/2021					
Aluminum	0.13	0.040	mg/L	0.1000	ND	128	70-130			
Antimony	0.057	0.00050	mg/L	0.05000	0.00013	113	70-130			
Arsenic	0.062	0.00050	mg/L	0.05000	0.0031	119	70-130			
Barium	0.29	0.00050	mg/L	0.05000	0.25	86	70-130			
Beryllium	0.057	0.00025	mg/L	0.05000	ND	114	70-130			
Cadmium	0.055	0.00025	mg/L	0.05000	ND	111	70-130			
Chromium	0.054	0.00050	mg/L	0.05000	0.00014	108	70-130			
Cobalt	0.061	0.00025	mg/L	0.05000	0.0085	106	70-130			
Copper	0.054	0.00050	mg/L	0.05000	0.0043	100	70-130			
Lead	0.057	0.00050	mg/L	0.05000	0.00018	114	70-130			
Manganese	3.6	0.025	mg/L	0.05000	3.7	NR	70-130			M3
Molybdenum	0.065	0.00025	mg/L	0.05000	0.0074	115	70-130			
Nickel	0.057	0.00050	mg/L	0.05000	0.0054	102	70-130			
Selenium	0.062	0.0025	mg/L	0.05000	0.00037	124	70-130			
Silver	0.038	0.00050	mg/L	0.05000	0.000021	75	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	ND	101	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.011	109	70-130			

Batch 2109239 - E 245.1

Blank (2109239-BLK1)		Prepared & Analyzed: 09/20/2021								
Mercury	ND	0.0010	mg/L							
LCS (2109239-BS1)		Prepared & Analyzed: 09/20/2021								
Mercury	0.0050	0.0010	mg/L	0.005000		101	85-115			
LCS Dup (2109239-BSD1)		Prepared & Analyzed: 09/20/2021								
Mercury	0.0050	0.0010	mg/L	0.005000		101	85-115	0.01	20	
Matrix Spike (2109239-MS1)		Source: 21I0106-02			Prepared & Analyzed: 09/20/2021					
Mercury	0.0052	0.0010	mg/L	0.005000	ND	104	70-130			
Matrix Spike Dup (2109239-MSD1)		Source: 21I0106-02			Prepared & Analyzed: 09/20/2021					
Mercury	0.0053	0.0010	mg/L	0.005000	ND	105	70-130	1	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109061 - SM2540 C										
Duplicate (2109061-DUP1) Source: 2110048-01 Prepared: 09/07/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	890	20	mg/L		890			0	5	
Duplicate (2109061-DUP2) Source: 2110048-02 Prepared: 09/07/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	1200	20	mg/L		1100			2	5	
Duplicate (2109061-DUP3) Source: 2110048-03 Prepared: 09/07/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	1500	20	mg/L		1500			0.7	5	
Batch 2109063 - SM2540 D										
Duplicate (2109063-DUP1) Source: 2110083-05 Prepared: 09/07/2021 Analyzed: 09/09/2021										
Total Suspended Solids	51	10	mg/L		52			2	5	
Duplicate (2109063-DUP2) Source: 2110084-02 Prepared: 09/07/2021 Analyzed: 09/09/2021										
Total Suspended Solids	28	10	mg/L		50			56	5	R12
Batch 2109096 - E180.1										
Duplicate (2109096-DUP1) Source: 2110012-01 Prepared & Analyzed: 09/08/2021										
Turbidity	1.2	0.10	NTU		1.3			8	10	
Duplicate (2109096-DUP2) Source: 2110210-01 Prepared & Analyzed: 09/08/2021										
Turbidity	1.3	0.10	NTU		1.2			8	10	
Batch 2109097 - SW9045D										
Duplicate (2109097-DUP1) Source: 2110084-06 Prepared & Analyzed: 09/08/2021										
pH (pH Units)	7.6	-			7.6			0.4	200	H5
Temperature (°C)	21	-			22			0.5	200	H5
Duplicate (2109097-DUP2) Source: 2110211-01 Prepared & Analyzed: 09/08/2021										
pH (pH Units)	7.0	-			7.9			12	200	H5
Temperature (°C)	22	-			22			0	200	H5
Batch 2109127 - SM2540 C										
Duplicate (2109127-DUP1) Source: 2110004-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	1100	20	mg/L		1100			0.4	5	
Duplicate (2109127-DUP2) Source: 2110264-01 Prepared: 09/10/2021 Analyzed: 09/14/2021										
Total Dissolved Solids (Residue, Filterable)	95000	20	mg/L		83000			13	5	N1
Duplicate (2109127-DUP3) Source: 2110292-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	230	20	mg/L		230			0	5	
Batch 2109139 - SM4500-NH3 B,C										
Blank (2109139-BLK1) Prepared & Analyzed: 09/10/2021										
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109139 - SM4500-NH3 B,C										
LCS (2109139-BS1)				Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		102	90-110			
LCS Dup (2109139-BSD1)				Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		101	90-110	0.9	10	
Matrix Spike (2109139-MS1)		Source: 2110012-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.45	92	75-120			
Matrix Spike (2109139-MS2)		Source: 2110084-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	8.0	0.50	mg/L	5.000	2.9	101	75-120			
Matrix Spike Dup (2109139-MSD1)		Source: 2110012-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000	0.45	94	75-120	2	20	
Matrix Spike Dup (2109139-MSD2)		Source: 2110084-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	8.0	0.50	mg/L	5.000	2.9	102	75-120	0.3	20	
Batch 2109140 - SM4500-SiO2 C										
Blank (2109140-BLK1)				Prepared & Analyzed: 09/13/2021						
Silica	ND	2.0	mg/L							
LCS (2109140-BS1)				Prepared & Analyzed: 09/13/2021						
Silica	8.5	2.0	mg/L	8.000		106	90-110			
LCS Dup (2109140-BSD1)				Prepared & Analyzed: 09/13/2021						
Silica	8.3	2.0	mg/L	8.000		104	90-110	2	20	
Matrix Spike (2109140-MS1)		Source: 2110106-05		Prepared & Analyzed: 09/13/2021						
Silica	65	10	mg/L	40.00	17	118	85-115			M1
Matrix Spike Dup (2109140-MSD1)		Source: 2110106-05		Prepared & Analyzed: 09/13/2021						
Silica	64	10	mg/L	40.00	17	116	85-115	1	20	M1
Batch 2109144 - SM2510 B										
LCS (2109144-BS1)				Prepared & Analyzed: 09/10/2021						
Conductivity	150	0.10	µmhos/cm	141.2		103	0-200			
LCS Dup (2109144-BSD1)				Prepared & Analyzed: 09/10/2021						
Conductivity	150	0.10	µmhos/cm	141.2		107	0-200	3	200	
Duplicate (2109144-DUP1)		Source: 2110230-02		Prepared & Analyzed: 09/10/2021						
Conductivity	230	0.10	µmhos/cm		230			3	10	
Batch 2109153 - SM2510 B										
LCS (2109153-BS1)				Prepared & Analyzed: 09/13/2021						
Conductivity	150	0.10	µmhos/cm	141.2		108	0-200			
LCS Dup (2109153-BSD1)				Prepared & Analyzed: 09/13/2021						
Conductivity	150	0.10	µmhos/cm	141.2		107	0-200	1	200	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110106
Date Received: 09/07/2021

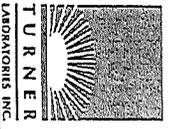
QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109153 - SM2510 B										
Duplicate (2109153-DUP1)		Source: 2110262-04			Prepared & Analyzed: 09/13/2021					
Conductivity	180	0.10	µmhos/cm		190			7	10	
Duplicate (2109153-DUP2)		Source: 2110231-01			Prepared & Analyzed: 09/13/2021					
Conductivity	550	0.10	µmhos/cm		540			2	10	
Batch 2109156 - SM2320B										
Blank (2109156-BLK1)		Prepared & Analyzed: 09/13/2021								
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2109156-BS1)		Prepared & Analyzed: 09/13/2021								
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		101	90-110			
LCS Dup (2109156-BSD1)		Prepared & Analyzed: 09/13/2021								
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		100	90-110	0.8	10	
Matrix Spike (2109156-MS1)		Source: 2110211-01			Prepared & Analyzed: 09/13/2021					
Alkalinity, Total (As CaCO3)	360	2.0	mg/L	250.0	110	102	70-130			
Matrix Spike Dup (2109156-MSD1)		Source: 2110211-01			Prepared & Analyzed: 09/13/2021					
Alkalinity, Total (As CaCO3)	360	2.0	mg/L	250.0	110	100	70-130	2	10	
Batch 2109206 - PAI-DK01										
Blank (2109206-BLK1)		Prepared: 09/15/2021 Analyzed: 09/16/2021								
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (2109206-BS1)		Prepared: 09/15/2021 Analyzed: 09/16/2021								
Nitrogen, Total Kjeldahl	5.2	0.50	mg/L	5.000		105	80-120			
LCS Dup (2109206-BSD1)		Prepared: 09/15/2021 Analyzed: 09/16/2021								
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		101	80-120	3	20	
Matrix Spike (2109206-MS1)		Source: 2110004-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Nitrogen, Total Kjeldahl	5.9	0.50	mg/L	5.000	1.0	98	80-120			
Matrix Spike (2109206-MS2)		Source: 2110215-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Nitrogen, Total Kjeldahl	14	5.0	mg/L	5.000	8.4	118	80-120			
Matrix Spike Dup (2109206-MSD1)		Source: 2110004-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Nitrogen, Total Kjeldahl	5.9	0.50	mg/L	5.000	1.0	98	80-120	0.4	20	
Matrix Spike Dup (2109206-MSD2)		Source: 2110215-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Nitrogen, Total Kjeldahl	14	5.0	mg/L	5.000	8.4	109	80-120	3	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0106
Date Received: 09/07/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109072 - E300.0 (2.1)										
Blank (2109072-BLK1) Prepared & Analyzed: 09/07/2021										
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (2109072-BS1) Prepared & Analyzed: 09/07/2021										
Chloride	13	1.0	mg/L	12.50		106	90-110			
Fluoride	2.0	0.50	mg/L	2.000		100	90-110			
Nitrogen, Nitrate (As N)	5.3	0.50	mg/L	5.000		106	90-110			
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500		109	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		106	90-110			
Sulfate	13	5.0	mg/L	12.50		105	90-110			
LCS Dup (2109072-BSD1) Prepared & Analyzed: 09/07/2021										
Chloride	13	1.0	mg/L	12.50		106	90-110	0.02	10	
Fluoride	2.2	0.50	mg/L	2.000		110	90-110	9	10	
Nitrogen, Nitrate (As N)	5.3	0.50	mg/L	5.000		107	90-110	0.8	10	
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500		109	90-110	0.4	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		104	90-110	2	10	
Sulfate	13	5.0	mg/L	12.50		104	90-110	0.4	10	
Matrix Spike (2109072-MS1) Source: 21I0106-01 Prepared: 09/07/2021 Analyzed: 09/16/2021										
Chloride	16	1.0	mg/L	12.50	4.7	93	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	88	80-120			
Nitrogen, Nitrate (As N)	5.6	0.50	mg/L	5.000	0.83	95	80-120			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.055	97	80-120			
Sulfate	19	5.0	mg/L	12.50	9.4	74	80-120			M2
Matrix Spike (2109072-MS2) Source: 21I0106-02 Prepared: 09/07/2021 Analyzed: 09/16/2021										
Chloride	16	1.0	mg/L	12.50	4.5	91	80-120			
Matrix Spike Dup (2109072-MSD1) Source: 21I0106-01 Prepared: 09/07/2021 Analyzed: 09/16/2021										
Chloride	16	1.0	mg/L	12.50	4.7	94	80-120	0.4	10	
Fluoride	1.8	0.50	mg/L	2.000	ND	89	80-120	0.8	10	
Nitrogen, Nitrate (As N)	5.6	0.50	mg/L	5.000	0.83	95	80-120	0.4	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.055	98	80-120	0.5	10	
Sulfate	19	5.0	mg/L	12.50	9.4	74	80-120	0.04	10	M2
Matrix Spike Dup (2109072-MSD2) Source: 21I0106-02 Prepared: 09/07/2021 Analyzed: 09/16/2021										
Chloride	16	1.0	mg/L	12.50	4.5	91	80-120	0.09	10	



2445 N. Coyote Drive, Suite 104
 Tucson, Arizona 85745
 (520) 882-5880
 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 410106 DATE 9/1/21 PAGE 1 OF 1

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

PROJECT NAME: Stormwater # _____		CONTACT NAME: David Kitzek		COMPANY NAME: Hudbay Minerals/ Rosemont Copper Company		ADDRESS: 5255 E Williams Circle, Suite 1065		CITY: Tucson STATE: AZ ZIP CODE: 85711		PHONE: 520-495-3527 FAX: _____		SAMPLER'S SIGNATURE: <u>[Signature]</u>	
1. RELINQUISHED BY:		2. RECEIVED BY:		3. RELINQUISHED BY:		* LEGEND		REPORT REQUIREMENTS:		INVOICE INFORMATION:		SAMPLER'S SIGNATURE:	
Signature: <u>[Signature]</u> Printed Name: <u>David Kitzek</u>		Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u>		Signature: _____ Printed Name: _____		DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER		I. Routine Report II. Report (includes DUP,MS,MSD, as required, may be charged as samples) III. Date Validation Report (includes All Raw Data)		Account: <u>[Account]</u> P.O. #: _____ Bill to: _____		Total Containers: <u>254</u> Temperature: <u>14.3</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice	
Date/Time: <u>9/7/21 7:50 am</u>		Date/Time: <u>9/1/21 8:15 am</u>		Date/Time: _____		* Working Days		Standard (approx. 10 days)* Next day _____ 2 Day _____ 5 Day _____ Email Preliminary Results To: _____		Circulation: _____		Preservation Confirmation: _____	
Firm: _____		Firm: _____		Firm: _____		SG = SLUDGE		Add 10% to Invoice		Container Intact: _____		Appropriate Head Space: _____	
Date/Time: _____		Date/Time: _____		Date/Time: _____		SL = SOIL		All Raw Data		COC/Labels Agree: _____		Received Within Hold Time: _____	
Date/Time: _____		Date/Time: _____		Date/Time: _____		ST = STORMWATER		Add 10% to Invoice		COC/Labels Agree: _____		Received Within Hold Time: _____	
Date/Time: _____		Date/Time: _____		Date/Time: _____		WW = WASTEWATER		Add 10% to Invoice		COC/Labels Agree: _____		Received Within Hold Time: _____	

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Stormwater Monitoring – Existing Conditions							
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Field Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard		
					Barrel Canyon Wash ¹	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries ¹
General Measurements							
Temperature – field	° C (Celsius)	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	NNS	NNS	NNS
pH – field	S.U.	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	6.5 – 9.0	6.5 – 9.0	6.5 – 9.0
Conductivity – field	µS/cm	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	NNS	NNS	NNS

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard ¹		
					Barrel Canyon Wash ¹	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries ¹
General Measurements, General Chemistry (continued)							
Nitrate + Nitrite (as N)	mg/L	EPA 300.0/ calculation	0.10	NA	NNS	NNS	NNS
Total Nitrogen	mg/L	Total Nitrogen/ calculation	NA	NA	NNS	NNS	NNS
Total Kjeldahl Nitrogen	mg/L	EPA 351.2	0.50	NA	NNS	NNS	NNS
Calcium ³	mg/L	EPA 200.7	2.0	NA	NNS	NNS	NNS
Magnesium ³	mg/L	EPA 200.7	2.0	NA	NNS	NNS	NNS
Sodium ³	mg/L	EPA 200.7	0.5	NA	NNS	NNS	NNS
Potassium ³	mg/L	EPA 200.7	0.5	NA	NNS	NNS	NNS
Ammonia (as N)	mg/L	SM 4500	0.5	NA	NNS	NNS	NNS
Orthophosphate (as P)	mg/L	EPA 300.0	0.1	NA	NNS	NNS	NNS
Silicon Dioxide ³	mg/L	EPA 200.7	0.214	NA	NNS	NNS	NNS

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard ¹		
					Barrel Canyon Wash	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries
Total Recoverable Metals							
Aluminum	mg/L	EPA 200.7	0.1	NA	NNS	NNS	NNS
Antimony	mg/L	EPA 200.8	0.001	NA	0.747	0.747	0.747
Arsenic	mg/L	EPA 200.8	0.0005	NA	0.280	0.200	0.280
Barium	mg/l	EPA 200.7	0.01	NA	98.0	98.0	98.0
Beryllium	mg/L	EPA 200.7	0.001	NA	1.867	1.867	1.867
Boron	mg/L	EPA 200.7	0.05	NA	186.67	186.67	186.67
Cadmium	mg/L	EPA 200.7	0.001	NA	0.700	0.05	0.700
Chromium – total ⁴	mg/L	EPA 200.7	0.01	NA	1,400	1,400	1,400
Cobalt	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Copper	mg/L	EPA 200.7	0.01	NA	1.30	0.05	1.30
Iron	mg/L	EPA 200.7	0.1	NA	NNS	NNS	NNS
Lead	mg/L	EPA 200.8	0.0005	NA	0.015	0.015	0.015
Manganese	mg/L	EPA 200.7	0.01	NA	130.667	130.667	130.667
Mercury	mg/L	EPA 245.1	0.0002	NA	0.280	0.01	0.280
Molybdenum	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Nickel	mg/L	EPA 200.7	0.01	NA	28.0	28.0	28.0
Selenium	mg/L	EPA 200.8	0.0005	NA	0.033	0.033	0.033
Silver	mg/L	EPA 200.8	0.0001	NA	4.667	4.667	4.667
Thallium	mg/L	EPA 200.8	0.0001	NA	0.075	0.075	0.075
Uranium	mg/L	EPA 200.8	0.0001	NA	2.8	2.8	2.8
Zinc	mg/L	EPA 200.8	0.013	NA	280.0	25.0	280.0

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Notes:

Units: S.U. = standard units

µS/cm = micro Siemens per centimeter

mg/L = milligrams per liter

µg/L = micrograms per liter

NA = not applicable

NNS = no numeric standard

Notes:

1: Applicable water quality standard: Arizona Surface Water Quality Standards (SWQSS) for designated uses in Barrel Canyon Wash and West side unlisted tributaries are: Aquatic & Wildlife, ephemeral (A&We) and Partial Body Contact (PBC), whichever is more stringent. Designated uses in Davidson Canyon Wash are: A&We, PBC, and Agricultural Livestock Watering (Agl). SWQSS listed for dissolved metals are based on a hardness of 50 mg/L and are for general reference only. Actual values of hardness will vary based on sample analysis.

2: SWQSS listed for Upper Davidson Canyon Wash are for the stretch identified in 18 A.A.C. 11, Article 1, Appendix B, as "Headwaters to unnamed spring at 31 59' 00"/110 38' 43.5" (i.e., above the designated Outstanding Arizona Water stretches).

3: Parameter to be analyzed as both dissolved and total.

4: Stormwater samples will be analyzed for total Chromium but the results will be compared to Chromium III (since there is currently no lab method for Cr III). Numeric standard listed in Table B-1 is for Chromium III. Based on baseline data, Cr total for stormwater samples is below SWQSS for Cr III.

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions							
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard		
					Barrel Canyon Wash ¹	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries ¹
Dissolved Metals							
Aluminum	mg/L	EPA 200.7	0.1	NA	NNS	NNS	NNS
Antimony	mg/L	EPA 200.8	0.001	NA	0.747	0.747	0.747
Arsenic	mg/L	EPA 200.8	0.0005	NA	0.440	0.440	0.440
Barium	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Beryllium	mg/L	EPA 200.7	0.001	NA	NNS	NNS	NNS
Boron	mg/L	EPA 200.7	0.05	NA	NNS	NNS	NNS
Cadmium	mg/L	EPA 200.7	0.001	NA	0.03046	0.03046	0.03046
Chromium – total ⁴	mg/L	EPA 200.7	0.01	NA	1.084	1.084	1.084
Cobalt	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Copper	mg/L	EPA 200.7	0.01	NA	0.01211	0.01211	0.01211
Lead	mg/L	EPA 200.8	0.0005	NA	0.06360	0.06360	0.06360
Manganese	mg/l	EPA 200.7	0.01	NA	130.67	130.67	130.67
Mercury	mg/L	EPA 245.1	0.0002	NA	0.005	0.005	0.005
Molybdenum	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Nickel	mg/L	EPA 200.7	0.01	NA	2.313	2.313	2.313
Selenium	mg/L	EPA 200.8	0.0005	NA	NNS	NNS	NNS
Silver	mg/L	EPA 200.8	0.0001	NA	0.00098	0.00098	0.00098
Thallium	mg/L	EPA 200.8	0.0001	NA	NNS	NNS	NNS
Zinc	mg/L	EPA 200.8	0.013	NA	0.618	0.618	0.618

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)									
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard ¹				
					Barrel Canyon Wash	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries		
General Measurements, General Chemistry									
Temperature – lab	° C	SM 4500 H+B	NA	NA	NNS	NNS	NNS		
pH –lab	S.U.	SM 4500 H+B	NA	NA	6.5 – 9.0	6.5 – 9.0	6.5 – 9.0		
Conductivity – lab	µS/cm	SW-846 9050A	2.0	NA	NNS	NNS	NNS		
Total dissolved solids	mg/L	SM 2540 C	20	NA	NNS	NNS	NNS		
Total suspended solids	mg/L	SM 2540 D	10	NA	NNS	NNS	NNS		
Turbidity	NTU	EPA 180.1	1.0	NA	NNS	NNS	NNS		
Hardness ³	mg/L	SM 2340B/ calculation	13.0	NA	NNS	NNS	NNS		
Cation/Anion Balance	%	calculation	NA	NA	NNS	NNS	NNS		
Total alkalinity	mg/L	SM 2320 B	4.0	NA	NNS	NNS	NNS		
Bicarbonate	mg/L	SM2320 B	4.0	NA	NNS	NNS	NNS		
Carbonate	mg/L	SM2320 B	4.0	NA	NNS	NNS	NNS		
Hydroxide	mg/L	SM2320 B	4.0	NA	NNS	NNS	NNS		
Sulfate	mg/L	EPA 300.0	0.50	NA	NNS	NNS	NNS		
Chloride	mg/L	EPA 300.0	0.5	NA	NNS	NNS	NNS		
Fluoride	mg/L	EPA 300.0	0.50	NA	140	140	140		
Nitrate (as nitrogen [N])	mg/L	EPA 300.0	0.10	NA	3,733.3	3,733.3	3,733.3		
Nitrite (as N)	mg/L	EPA 300.0	0.10	NA	233.3	233.3	233.3		

